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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/537,473	03/16/2006	Josef Buechler	510.1140 3261	
	7590 01/03/2008 idson & Kappel, LLC		EXAMINER	
485 17th Avenue			LY, HIEN QUANG	
14th Floor New York, NY	10018		ART UNIT PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/537,473	BUECHLER ET AL.			
Office Action Summary	Examiner	Art Unit			
	Hien Ly	3662			
The MAILING DATE of this communication app		orrespondence address			
Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from 1. cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>07 December 2007</u> .					
,					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 12-24 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) 12-24 is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	r election requirement.				
	, •.•.				
Application Papers					
9) The specification is objected to by the Examine					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary (PTO-413) Paper No(s)/Mail Date				
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal 6) Other:				

DETAILED ACTION

Receipt is acknowledged of applicant's amendment filed on December 17, 2007. Claims 12-24 are pending and an action on the merits is as follows.

Applicant's arguments with respect to claims **12 and 24** have been considered but are most in view of the new grounds of rejection.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claim 12 is rejected under 35 U.S.C. 102(b) as being anticipated by Ghosh ('6,774,764).

Regarding **claim 12**, Ghosh discloses a radar device having a sensor and a transmitter configured to transmit data simultaneously operable for a communication. See FIG. 1(" motor vehicle SDR 12"). Abstract and column 3, lines 16-27.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claim 13 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Ghosh** as applied to **claim 12** above, and further in view of **Hill ('4,743,910)**.

Regarding **claim 13**, Ghosh discloses a pulse radar having a predefined transmission/reception spectrum with a transmission frequency range. See FIG.1 (" FM modulation and f_0 correction 11, microwave source 10, and pulse former 13"). Column 1, line 24-33 and column 6, line 34-45.

Ghosh fails to disclose a notch filter configured to selectively frequency range subrange containing spectral component of a sensing signal within the transmission frequency range.

However, Hill discloses a notch filter configured to selectively frequency range subrange containing spectral component of a sensing signal within the transmission frequency range. See FIG.7 (" a notch filter 64"). Column 9, line 27-38.

It would have been obvious to modify Ghosh to include a notch filter in teaching of Hill in order to efficiently adjust the frequency of the filtering notch to filter out the first rectangular wave clutter signal regardless from what range the clutter is reflected.

5. Claims 14-15, 21, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ghosh as applied to claim 12 above, and further in view of Lisle ('5,418,536).

Regarding claims 14, 21, and 24, Ghosh discloses a step of sensing and transmitting data simultaneously as previously discussed in claim 12. Ghosh fails to disclose a pulse radar having a predefined transmission/reception spectrum, a transmission frequency range for the transmission of data being in a peripheral region of the predefined transmission/reception spectrum.

However, Lisle discloses a pulse radar having a predefined transmission/reception spectrum, a transmission frequency range for the transmission of data being in a peripheral region of the predefined transmission/reception spectrum. See FIG.3-4. Column 3, line 7-16.

It would have been obvious to modify Ghosh to include a predefined transmission/reception spectrum and a transmission range in teaching of Lisle in order to efficiently generate an output signal characteristically representative of a predetermined frequency spectrum of an input signal.

Regarding claim 15, this claim is a design choice of the peripheral region in an expected way of implementing the combination of Ghosh and Lisle with no new or unexpected result.

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6. Claims 16-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ghosh in view of Lisle as applied to claim 13 above, and further in view of Caspers (6,507,730).

Regarding claim 16, Ghosh in view of Lisle fail to disclose the transmission frequency range including a plurality of individual frequency bands, each of for the transmission of data form different data class.

However, Caspers discloses the transmission frequency range including a plurality of individual frequency bands, each of for the transmission of data form different data class. See FIG.2 (" spectrum 250, frequency band 201, 202, a single data frequency"). Column 3, line 15-35.

It would have been obvious to modify Ghosh in view of Lisle to include a plurality of individual frequency bands, each of for the transmission of data form different data class in teaching of Caspers in order to efficiently combine speech and data device.

Regarding claim 17, Ghosh in view of Lisle fail to disclose the difference data classes including at least one of emergency data log data and communication data.

However, Caspers inherently teaches the difference data classes including at least on of emergency data log data and communication data. See FIG.2 (" spectrum 250, frequency band 201, 202, a single data frequency"). Column 3, line 15-35.

It would have been obvious to modify Ghosh in view of Lisle to include the difference data classes including at least one of emergency data log data and communication data in teaching of Caspers in order to efficiently combine speech and data device.

7. Claim 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ghosh as applied to claim 12 above, and further in view of Wren (5,014,340) and Takeuchi ('2002/0122500)

Regarding claim 18, Ghosh fails to disclose a transmitter including amplitude modulation for emergency data and PSK modulation for the transmission of communication data and log data.

However, Wren discloses a transmitter including an amplitude modulation for the emergency data. See column 5, line 48-53.

It would have been obvious to modify Ghosh to include an amplitude modulation for the emergency data in teaching of Wren in order to efficiently three signal in sequential signals.

Wren fails to disclose PSK modulation for the transmission of communication data and log data.

However, Takeuchi discloses PSK modulation for the transmission of communication data and log data. See FIG.1 (" a transmitter 10 and a communication channel 20"). Page 2, paragraph 0025.

It would have been obvious to modify Ghosh and Wren to include PSK modulation for the transmission of communication data and log data in teaching of Takeuchi in order to efficiently separate the signal into real part and an imaginary part.

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8. Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Ghosh** as applied to claim 12 above, and further in view of **Miller** ('7,065,125).

Regarding claim 20, Ghosh fails to disclose a receiver configured to receive a communication data signal and feeding the communication data to a demodulation device.

However, Miller discloses a receiver configured to receive a communication data signal and feeding the communication data to a demodulation device. See FIG. 11 (" receiver 1100, demod controller 1108, demod 1110, and data handling system 1112"). Column 9, line 6-12.

It would have been obvious to modify Ghosh to include a receiver configured to receive a communication data signal and feeding the communication data to a demodulation device in teaching of Miller in order to efficiently improve multiple access collision performance as compared to SA/CDMA systems.

9. Claims 19, 22, and 23 are rejected under 35 U.S.C. 103(a) as being unpatentable over **Ghosh** as applied to claim 12 above, and further in view of **Knoop** ('7,015,805).

Regarding claims 19 and 23, Ghosh fails to disclose a vehicle having radar as claimed.

However, Knoop discloses a vehicle having radar as claimed. See abstract.

It would have been obvious to modify Ghosh to include a vehicle having radar as claimed in teaching of Knoop in order to efficiently control device of a vehicle during a brake operation.

Regarding **claim 22**, Ghosh fails to disclose a radar device system comprising a plurality systems configured to sense its respective surroundings simultaneously exchange data with another of the plurality of radar system.

However, Knoop discloses a radar device system comprising a plurality systems configured to sense its respective surroundings simultaneously exchange data with another of the plurality of radar system. See column 6, line 55-65.

It would have been obvious to modify Ghosh to include a radar device system comprising a plurality systems configured to sense its respective surroundings simultaneously exchange data with another of the plurality of radar system in teaching of Knoop in order to efficiently control device of a vehicle during a brake operation.

10. Claim 22 is rejected under 35 U.S.C. 103(a) as being unpatentable over **Ghosh** as applied to claim 12 above, and further in view of **Furst** ('6,338,011).

Regarding **claim 22**, Ghosh fails to disclose a radar device system comprising a plurality systems configured to sense its respective surroundings simultaneously exchange data with another of the plurality of radar system.

However, Furst discloses a radar device system comprising a plurality systems configured to sense its respective surroundings simultaneously exchange data with

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another of the plurality of radar system. See FIG.1 (" radars 1,2, and 3"). Column 4, line 28-44.

It would have been obvious to modify Ghosh to include a radar device system comprising a plurality systems configured to sense its respective surroundings simultaneously exchange data with another of the plurality of radar system in teaching of Furst in order to efficiently provide users with accurate and timely vehicle telemetry information from different sensor source.

Response to Arguments

Applicant's arguments filed on December 17, 2007 have been fully considered but they are not persuasive.

Regarding applicant's argument for claims **1 and 24**, applicant's arguments are moot in view of the new grounds rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hien Ly whose telephone number is 571-270-1326. The examiner can normally be reached on M-F: 7:00am - 4:00pm (EST).

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, THOMAS H. TARCZA can be reached on 571-272-6979. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Patent Examiner

Hien Ly

December 27, 2007

THOMAS H. TARCZA SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 3600